

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference DAS/P/76516.WO/3	FOR FURTHER ACTION <small>see Form PCT/ISA/220 as well as, where applicable, item 5 below.</small>	
International application No. PCT/IB2004/003674	International filing date (day/month/year) 10/11/2004	(Earliest) Priority Date (day/month/year) 10/11/2003
Applicant MELEXIS NV		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box II).

3. ☐ Unity of invention is lacking (see Box III).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. 1

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB2004/003674

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

An optical data transceiver (100) comprises an integrated circuit (101), having provided on one side thereof a light sensing or light emitting means (104). A reflecting and receiving means (102), is mounted on the same surface of integrated circuit (101) as the light sensing or emitting means (104). The reflector means is open at both ends and has shaped and reflective internal surfaces (103). The reflecting and receiving means (102) is adapted at one end to receive a Plastic Optical Fibre (POF) (150) into connection therewith and at the other end is aligned with the light sensing or emitting means (104). In this way, the reflecting and receiving means is operable to direct light proceeding from the end of the fibre (150) to the light sensing means (104), or direct light from the light emitting means (104) to the end of the fibre (150), and is further operable to retain the POF (150) in position relative to the light sensing or emitting means (104).

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/003674A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G02B6/42

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELD(S) SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G02B F01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, MPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/054129 A1 (KRAGL, HANS) 11 July 2002 (2002-07-11) pages 9-11 figures 1a, 4, 5	1-4, 6-14, 19, 21-24 5, 15-18, 20, 30-42
X	US 5 764 832 A (TABUCHI ET AL) 9 June 1998 (1998-06-09) column 13, lines 11-23 column 15, line 18 - column 16, line 25 figures 21, 22	1-3, 6-9, 25-29
Y	US 5 337 398 A (BENZONI ET AL) 9 August 1994 (1994-08-09) column 7, lines 16-62 figure 12	30-34, 40-42

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

27 January 2005

Date of mailing of the international search report

04/02/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.
Fax (+31-70) 340-3016

Authorized officer

Kloppenburg, M

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2004/003674

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	DE 101 17 890 A1 (OSRAM OPTO SEMICONDUCTORS GMBH & CO. OHG) 24 October 2002 (2002-10-24) paragraphs '0043!', '0044! paragraphs '0063! - '0066! figures 1-5	35-37
Y	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 04, 31 May 1995 (1995-05-31) -& JP 07 030154 A (OMRON CORP), 31 January 1995 (1995-01-31) abstract; figures 5,7	38-40
Y	US 3 859 536 A (THIEL ET AL) 7 January 1975 (1975-01-07) column 3, lines 29-56 figure 1	5,20
Y	US 4 612 670 A (HENDERSON ET AL) 16 September 1986 (1986-09-16) column 5, lines 3-42 column 6, line 66 - column 7, line 39 figures 6,7	15-18

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/003674

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 02054129	A1	11-07-2002	DE 10065624 A1 EP 1348143 A1 JP 2004520612 T US 2004008952 A1	18-07-2002 01-10-2003 08-07-2004 15-01-2004
US 5764832	A	09-06-1998	JP 3484543 B2 JP 6275870 A DE 4402422 A1 US 5644667 A	06-01-2004 30-09-1994 29-09-1994 01-07-1997
US 5337398	A	09-08-1994	DE 69313789 D1 DE 69313789 T2 EP 0600645 A1 JP 6208037 A	16-10-1997 26-03-1998 08-06-1994 26-07-1994
DE 10117890	A1	24-10-2002	NONE	
JP 07030154	A	31-01-1995	NONE	
US 3859536	A	07-01-1975	AT 353494 B AT 1275 A CA 1022238 A1 DE 2461795 A1 FR 2257150 A1 GB 1466486 A IT 1027890 B JP 1245774 C JP 50103201 A JP 59022202 B NL 7500110 A	12-11-1979 15-04-1979 06-12-1977 10-07-1975 01-08-1975 09-03-1977 20-12-1978 25-12-1984 15-08-1975 25-05-1984 09-07-1975
US 4612670	A	16-09-1986	NONE	